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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,860	03/26/2004	Amir Snapir	2328-128	8428
6449	7590 04/25/2006		EXAMINER	
ROTHWELL, FIGG, ERNST & MANBECK, P.C.			BUNNER, BRIDGET E	
1425 K STE SUITE 800	REET, N.W. 0		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			1647	
			DATE MAILED: 04/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		
	Application No.	Applicant(s)
	10/809,860	SNAPIR ET AL.
Office Action Summary	Examiner	Art Unit
	Bridget E. Bunner	1647
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period for Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (136(a)). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>09 J</u> This action is FINAL . 2b)⊠ This Since this application is in condition for alloward closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pr	
Disposition of Claims		
 4) Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-17 are subject to restriction and/or 	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	is have been received. Is have been received in Application of the second of the secon	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	∆ □	(DTO 449)
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4)	

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DETAILED ACTION

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Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-5 and 16-17, drawn to a DNA sequence comprising a nucleotide sequence encoding a variant α_{2B} -adrenoceptor protein, classified in class 536, subclass 23.5.
 - II. Claims 6-8, drawn to a variant α_{2B} -adrenoceptor protein, classified in class 530, subclass 350.
 - III. Claims 9-13, drawn to a method for determining the presence or absence in a biological sample of a DNA sequence, classified in class 435, subclass 6.
 - IV. Claims 14-15, drawn to a method for screening a subject to determine if said subject is a carrier of a variant said gene with both alleles encoding a said variant α_{2B}-adrenoceptor, classified in class 435, subclass 6.

The inventions are distinct, each from the other because of the following reasons:

a. Inventions I and II are directed to related products. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the DNA of Group I and the protein of Group II are patentably distinct inventions. Polypeptides, which are composed of amino acids, and polynucleotides, which are composed of purine and pyrimidine units, are structurally distinct molecules. The protein of Group II can be prepared by processes which are materially different from recombinant DNA expression of Group I, such as by chemical synthesis, or by isolation and purification from natural sources. Additionally, the DNA of Group I can be used other than to make the protein of Group II.

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Furthermore, the distinct products require separate, distinct, and non-coextensive searches. As such, it would be burdensome to search the inventions of Groups I-II together.

Inventions III and IV are directed to related methods. The related inventions are b. distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive: the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). Groups III and IV are different methods requiring different method steps, wherein each is not required, one for another. For example, Invention III requires search and consideration of incubation of a DNA sequence with a capturing probe and a detection probe and determination of the presence of the DNA in the sample, which is not required by the other invention. Invention IV requires search and consideration of screening of variant α_{2B} -adrenoceptor genes (different genotypes) in a biological sample and assessing an individual's risk to develop a disease and an individual's need for α_{2B} -adrenoceptor therapy, which is not required by the other invention.

Furthermore, the distinct steps and products require separate, distinct, and noncoextensive searches. As such, it would be burdensome to search the inventions of Groups III-IV together.

C. Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the product claimed can be used in materially different processes, such as DNA purification and gene therapy.

Additionally, searching the inventions of Groups I and III together would impose serious search burden. The inventions of I and III have a separate status in the art as shown by their different classifications. Moreover, in the instant case, the search for a DNA sequence comprising a nucleotide sequence encoding a variant α_{2B} -adrenoceptor protein and method of use are not coextensive.

- d. Inventions I and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the different inventions of Groups I and IV/V are unrelated product and method, wherein each is not required, one for another. For example, the isolated DNA of Invention I cannot be used together with the claimed method of Inventions IV because this invention does not recite the use or production of the DNA molecule.
- e. Inventions II and III/IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the different inventions of Groups II and III/IV are unrelated products and methods, wherein each is not required, one for another. For example, the isolated polypeptide of Invention II cannot be used together with the claimed methods of Inventions III/IV because these inventions do not recite the use or production of the polypeptide.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different classification and different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.**

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bridget E. Bunner whose telephone number is (571) 272-0881. The examiner can normally be reached on 8:30-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on (571) 272-0961. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BEB Art Unit 1647 24 April 2006

> BRIDGET BUNNER PATENT EXAMINER

Bridget E. Burner